SAMPLING GENERAL NOTES:

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins alond the project corridor have been carefily evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling shceme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.
It has been determined that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site.
Approved primary and alternate representative monitoring sites are identified in the table:

The total site size is 50.88 acres.

SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Sample Featured	Location	Name of Receiving Water	Applicable Construction Stage for Monitoring	Sampling Type	Drainage Area for receiving water (sq miles)	Total Project Area (AC)	Warm or Cold Water	Appendix B NTU	Allowable NTU Increase	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope	Soil Erosion Index	Alternate Outfall Drainage Basins
O	US 19 STA 213+77, 82' LT	Kinchafoonee Creek	Stage 1	Outfall	15.38	50.88	Warm	100	N/A	Exisitng Outfall	New Road - Fill	0.02	0.031	5	A, P, N, C
B	120+54.77, 83' LT	Wetland 3	Stage 1	Outfall	0.1	50.88	Warm	50	N/A	End of Outfall	New Road - Fill	1.02	0.004	5	N/A
D	136+00.00, 35' LT	Wetland 5	Stage 1	Outfall	0.1	50.88	Warm	50	N/A	End of Outfall	New Road - Fill	0.73	0.0122	5	N/A
E	143+50.00, 35' LT	Muckalee Creek	Stage 1	Outfall	7.22	50.88	Warm	100	N/A	End of Outfall	New Road - Fill	1.09	0.007	5	N/A
F	153+92.00, 43' LT	Muckalee Creek	Stage 1	Outfall	7.22	50.88	Warm	100	N/A	End of Outfall	New Road - Fill	0.7	0.0058	5	N/A
G	159+33.00, 36' LT	Muckalee Creek	Stage 1	Outfall	7.22	50.88	Warm	100	N/A	End of Outfall	New Road - Fill	1.03	0.018	5	N/A
H	181+75.63, 46' RT	Muckalee Creek	All	Outfall	7.22	50.88	Warm	100	N/A	End of Outfall	New Road - Fill	2.24	0.004	5	N/A
I	188+00.00, 79' RT	Muckalee Creek	All	Outfall	7.22	50.88	Warm	100	N/A	End of Outfall	New Road - Fill	0.42	0.003	5	J

MONITORING SAMPLING METHODS & PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and Procedures.

READY MIX CHUTE WASH DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland coment concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of teh travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and the transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

PRIMARY PERMITTEE:

Georgia Department of Transportation
One Georgia Center
600 West Peachtree NW
Atlanta, Georgia 30308
(404) 631-1990

24 HOUR LOCAL CONTACT:

Name - TBD - after contract is awarded

( ) -
Phone No.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

No alternative or additonal BMP's will be used on this project.

DISCHARGES INTO, OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

STREAM AND OPEN-WATER BUFFER ENCROACHMENT

Stream Buffers, as defined by O.C.G.A 12-7-1 are not impacted by this project.

STORMWATER SAMPLING

SAMPLE ANALYSIS

Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001."

Storm water is to be sampled for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such condition results in the turbidity of the discharge exceeding 100, the value that was selected from Appendix B in Permit No. GAR 100002. The NTU is based upon the disturbed acreage of 25.57 acres for the project site, the surface water drainage area of 22.70 square miles, and receiving water which supports warm water fisheries.

STORM DRAIN PIPES

STR.#	LOCATION	SIZE	VELOCITY ft/sec	PROTECTION	TYPE	D_o	Q	T_w	L_a	$3D_o$	W	d_{50}
A-2	101+00.35' RT	30"	6.86	St-Rp	TP 3, 18 IN	2.5	14.42	>0.5D	17	7.5	19.5	0.50
B-2	120+83.79' RT	DBL 7' X 5'	5.93	St-Rp	TP 3, 18 IN	5.83	62.02	<0.5D	25	17.49	30.83	0.65
D-2	136+00.29' RT	3 24"	7.59	St-Rp	TP 3, 18 IN	8.5	26.84	>0.5D	24	25.5	32.5	0.65
E-2	143+50.33' RT	24"	7.10	St-Rp	TP 3, 18 IN	2	12.36	>0.5D	15	6	17	0.60
F-2	154+94.42' RT	30"	6.87	St-Rp	TP 3, 18 IN	2.5	14.54	>0.5D	9	7.5	11.5	0.60
G-2	159+32.25' RT	18"	9.03	St-Rp	TP 3, 18 IN	1.5	20.61	>0.5D	9	4.5	10.5	0.25
H-2	181+74.54' RT	36"	6.91	St-Rp	TP 3, 18 IN	2	20.61	>0.5D	13	6	15	0.50
I-2	188+00.50' RT	18"	5.46	St-Rp	TP 3, 18 IN	1.5	4.68	>0.5D	14	4.5	15.5	0.50
J-2	192+73.29' RT	2.5' X 3.0'	7.71	St-Rp	TP 3, 18 IN	3	10.03	>0.5D	9	9	12	0.55

Stantec

REVISION DATES
11/05/13

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

ESPC GENERAL NOTES

LEESBURG NORTH BYPASS
STP00-0001-00(420) 9/23/2013

DRAWING No. 51-002

GPLN